

ABSTRACT

Disclosed is a CRT(Cathode Ray Tube), in which lengths of vertical axes(Y-axes) of outermost row slots of a long side of a shadow mask, slots adjacent to the outermost row slots in a central direction of the shadow mask and slots adjacent to the adjacent slots in a central direction of the shadow mask are maintained in the range of 70% - 110% of a length of a vertical axis (Y-axis) of a perfect slot, thereby providing a visually stable screen. The color CRT includes a panel having a luminescent screen on an inner surface thereof, a funnel connected to the panel, an electron gun mounted on a neck part of the funnel, the electron gun emitting electron beams toward the luminescent screen, a shadow mask disposed in a fixed interval to the luminescent screen formed on the inner surface of the panel, the shadow mask serving to select colors, and a frame fixing and supporting the shadow mask, wherein the shadow mask includes an effective surface having a plurality of slots and a non-effective surface surrounding the effective surface; wherein the slots includes first slots arranged on an outermost row arranged in a vertical axis direction of the effective surface of the shadow mask, second slots being adjacent to the first slots in the vertical axis direction, third slots being adjacent to the second slots in the vertical axis direction, and fourth slots being adjacent to the third slots in the vertical axis direction; and wherein a length of the vertical axis direction of the first slots is in the range of 70% - 110% of a length of the vertical axis direction of the fourth slots. The color CRT can prevent the formation of convexo-concave form on a luminescent body, white spots generated on an end of the effective surface, and dot-like damage due to electron beam.